National Park Service
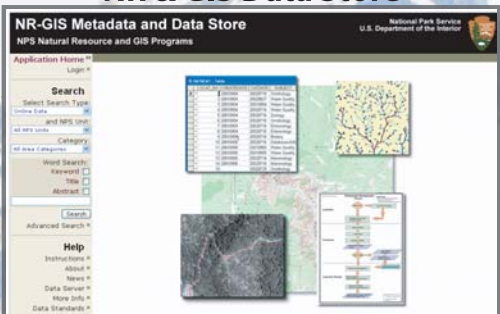## Introduction and Overview
GIS and Metadata Applications

The National Park Service (NPS) Natural Resource GIS (NR-GIS) and Alaska Region GIS (AKR-GIS) teams have developed a number of software applications that help integrate spatial and non-spatial data and facilitate data management and sharing. The applications include extensions to ESRI's ArcGIS™ application suite, stand-alone applications, data delivery services, and a metadata and data repository. While primarily designed for NPS users, the software products have powerful tools and features non-NPS users are likely to find helpful.

The products detailed in this display are being used in hundreds of NPS units helping data developers and resource managers fulfill the National Park Service's core mission: "to conserve the scenery and the natural and historic objects and the wild life therein and to provide for the enjoyment of the same in such manner and by such means as will leave them unimpaired for the enjoyment of future generations."
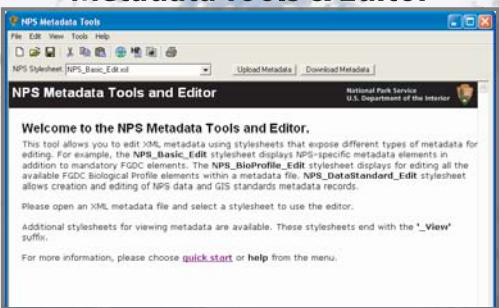-- National Park Service Organic Act, 16 U.S.C.1

NR & GIS Data Store

The NR & GIS Data Store is a repository for spatial and non-spatial NPS metadata and data that allows public and secure interaction via simple and advanced search options. The Data Store posts data to the federal Geospatial One-Stop and delivers data back to data producers using Web Services technology.
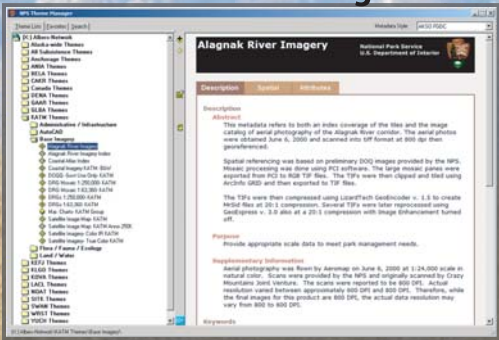
Metadata Tools & Editor

The Metadata Tools & Editor is a custom metadata application that runs either within ArcCatalog™ or in a stand-alone environment. It integrates with the NR & GIS Data Store and provides many powerful metadata management and editing features.
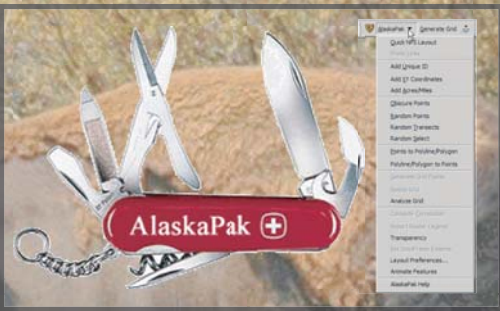
Vital Signs Monitoring IMS

The Vital Signs Monitoring Internet Mapping Service (VSMIMS) was developed as an ArcIMS™ and ArcSDE™-based application to provide the ability for users to share and analyze natural resource vital signs monitoring data in a spatial context.
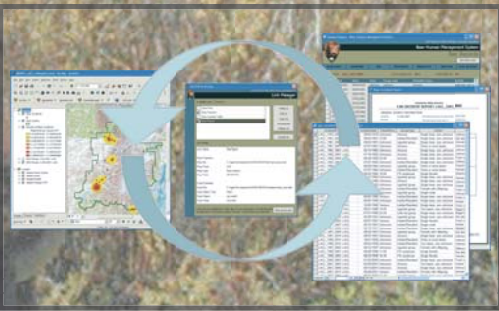
GIS Theme Manager

The GIS Theme Manager allows GIS administrators to present custom theme lists to users in an organized, integrated and easily understood format. Users can quickly access data in ArcMap™ without having to know the underlying data structure.

AlaskaPak Toolkit

The AlaskaPak Toolkit is a collection of tools for use with ArcMap™ desktop GIS. These tools augment ArcMap™ functionality by providing simple interfaces to common tasks performed by GIS technicians, resource managers, and other scientists.

Arc2Ax Link Tool

The Arc2Ax Link Tool provides a connection between spatial data in an ArcGIS™ map and related tabular data in an Access™ database. This tool allows communication between the ArcMap™ and Access™ products so that users may query data from one format to return results in the other.

Grand Teton National Park
Photo courtesy Jerry Megenity

GIS and Metadata Applications developed by:

NPS Natural Resource GIS Program
NPS Alaska Region GIS Team